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USPT,PGPB,JPAB,EPAB,DWPI,TDBD	l37 and history	51	<u>L38</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	l36 and undo	99	<u>L37</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	l32 and redo	200	<u>L36</u>
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USPT,PGPB,JPAB,EPAB,DWPI,TDBD	l32 and state with history	499	<u>L33</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	document	214813	<u>L32</u>
USPT	5847712.pn.	1	<u>L31</u>
USPT	6064388.pn.	1	<u>L30</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	l12 and l27	35	<u>L29</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	l12 and l26	244	<u>L28</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	((707/50\$)!.CCLS.)	1584	<u>L27</u>

USPT,PGPB,JPAB,EPAB,DWPI,TDBD	(((345/\$)!.CCLS.))	43902	L26
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USPT,PGPB,JPAB,EPAB,DWPI,TDBD	(((345/349)!.CCLS.))	0	L23
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	((345/348)!.CCLS.)	1	L22
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USPT,PGPB,JPAB,EPAB,DWPI,TDBD	(((707/511)!.CCLS.))	117	L20
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USPT,PGPB,JPAB,EPAB,DWPI,TDBD	(((707/502)!.CCLS.))	98	L18
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	((707/501)!.CCLS.)	3	L17
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	(((707/501 707/502)!.CCLS.))	101	L16
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	((707/530 707/531)!.CCLS.)	1025	L15
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	112 and document same state same history	3	L14
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	110 and "redo or step same forward"	0	L13
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	110 and (redo or step same forward)	6532	L12
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	110 and redo or step same forward	45819	L11
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	19 and undo or step same backward	10040	L10
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	18 and scroll\$	455	L9
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	17 and list	2592	L8
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	document same state	15180	L7
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	14 and 15	7	L6
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	13 and history	49	L5
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	history same command\$	2173	L4
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	11 and 12	186	L3
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	display same commands	52399	L2
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	undo same menu	268	L1

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USPT,PGPB,JPAB,EPAB,DWPI,TDBD	(((345/838)!..CCLS.))	30	<u>L4</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	(((345/684)!..CCLS.))	139	<u>L3</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	((345/650)!..CCLS.)	11	<u>L2</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	((707/501.1)!..CCLS.)	331	<u>L1</u>

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L14: Entry 1 of 3

File: USPT

Aug 6, 1996

US-PAT-NO: 5544302

DOCUMENT-IDENTIFIER: US 5544302 A

TITLE: Object-oriented framework for creating and using container objects with built-in properties

DATE-ISSUED: August 6, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nguyen; Frank T.	Campbell	CA	N/A	N/A

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Taligent, Inc.	Cupertino	CA	N/A	N/A	02

APPL-NO: 8/ 071812

DATE FILED: June 3, 1993

INT-CL: [6] G06F 15/00

US-CL-ISSUED: 395/161

US-CL-CURRENT: 345/837; 345/781, 345/839

FIELD-OF-SEARCH: 395/155, 395/156, 395/157, 395/158, 395/159, 395/160, 395/161

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected

Search ALL

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/> 4821220	April 1989	Duisberg	364/578
<input type="checkbox"/> 4885717	December 1989	Beck et al.	364/900
<input type="checkbox"/> 4891630	January 1990	Friedman et al.	340/706
<input type="checkbox"/> 4899136	February 1990	Beard et al.	340/706
<input type="checkbox"/> 4953080	August 1990	Dysart et al.	364/200
<input type="checkbox"/> 4974173	November 1990	Stefik et al.	364/521
<input type="checkbox"/> 5041992	August 1991	Cunningham et al.	364/518
<input type="checkbox"/> 5050090	September 1991	Golub et al.	364/478
<input type="checkbox"/> 5060276	October 1991	Morris et al.	382/8
<input type="checkbox"/> 5065347	November 1991	Pajak et al.	395/159
<input type="checkbox"/> 5072412	December 1991	Henderson, Jr. et al.	395/159
<input type="checkbox"/> 5075848	December 1991	Lai et al.	395/425
<input type="checkbox"/> 5093914	March 1992	Coplien et al.	395/700
<input type="checkbox"/> 5107443	April 1992	Smith et al.	395/158
<input type="checkbox"/> 5119475	June 1992	Smith et al.	395/156
<input type="checkbox"/> 5121478	June 1992	Rao	395/157
<input type="checkbox"/> 5125091	June 1992	Staas, Jr. et al.	395/650
<input type="checkbox"/> 5133075	July 1992	Risch	395/800
<input type="checkbox"/> 5136705	August 1992	Stubbs et al.	395/575
<input type="checkbox"/> 5151987	September 1992	Abraham et al.	395/575
<input type="checkbox"/> 5159669	October 1992	Trigg et al.	395/159
<input type="checkbox"/> 5181162	January 1993	Smith et al.	364/419
<input type="checkbox"/> 5287447	February 1994	Miller et al.	395/157
<input type="checkbox"/> 5305435	April 1994	Bronson	395/159

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
520924	December 1992	EPX	

OTHER PUBLICATIONS

Budd, Timothy; A Little Smalltalk, Addison-Wesley Publishing, 1987, pp. 3-19, 22-32.

ART-UNIT: 245

PRIMARY-EXAMINER: Powell; Mark R.

ASSISTANT-EXAMINER: Andrews; Robert G.

ATTY-AGENT-FIRM: Stephens; Keith

ABSTRACT:

An object-oriented framework is used to create container objects which are, in turn, used to hold both other objects and information in order to organize the information in a variety of ways. The framework contains a set of pre-defined class information which allows container objects to be constructed or instantiated. An instantiated container object can be accessed by a multitude of users and may contain other objects which can hold information defining other containers, such as shelves and trash cans, or which can hold information representing physical "things" such as locations, maps and people. The pre-defined class information includes member functions which provide default editing operations such as cut, copy, paste, drag, drop, selection, move, undo and redo, which

editing operations are applicable to all objects in the container. Member functions are also provided to generate one or more presentations on a display which represent the container.

24 Claims, 31 Drawing figures

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Search Results - Record(s) 1 through 2 of 2 returned.

☐ 1. Document ID: US 6111575 A

L35: Entry 1 of 2

File: USPT

Aug 29, 2000

US-PAT-NO: 6111575

DOCUMENT-IDENTIFIER: US 6111575 A

TITLE: Graphical undo/redo manager and method

DATE-ISSUED: August 29, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Martinez; Anthony Edward	Austin	TX	N/A	N/A
Rahn; Michael David	Rochester	MN	N/A	N/A

US-CL-CURRENT: 345/810; 707/530, 707/540

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 2. Document ID: US 5890181 A

L35: Entry 2 of 2

File: USPT

Mar 30, 1999

US-PAT-NO: 5890181

DOCUMENT-IDENTIFIER: US 5890181 A

TITLE: System and method for remotely grouping contents of an action history stack

DATE-ISSUED: March 30, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Selesky; Donald Bryant	Westford	MA	N/A	N/A
Armstrong; John	Cambridge	MA	N/A	N/A

US-CL-CURRENT: 707/530; 707/515

Full	Title	Citation	Front	Review	Classification	Date	Reference	KWIC	Draw Desc	Image
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L39: Entry 9 of 51

File: USPT

Jun 5, 2001

US-PAT-NO: 6243092

DOCUMENT-IDENTIFIER: US 6243092 B1

TITLE: Transaction flow editing tool

DATE-ISSUED: June 5, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Okita; Glen K.	San Jose	CA	N/A	N/A
Agarwal; Suresh K.	Sunnyvale	CA	N/A	N/A
Bodie; Margaret K.	Half Moon Bay	CA	N/A	N/A
Lin; Fung-Wah	Redwood City	CA	N/A	N/A
Chan; Yiu Man	Sunnyvale	CA	N/A	N/A
McCalmont; David T.	San Jose	CA	N/A	N/A
Blatt; Robert A.	Palo Alto	CA	N/A	N/A

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Aspect Communications	San Jose	CA	N/A	N/A	02

APPL-NO: 8/ 982938

DATE FILED: December 2, 1997

INT-CL: [7] G06F 3/00

US-CL-ISSUED: 345/349; 345/348, 345/965, 345/966, 345/334, 700/83

US-CL-CURRENT: 345/866; 345/716, 345/965, 345/966, 700/83

FIELD-OF-SEARCH: 345/356, 345/348, 345/346, 345/347, 345/967, 345/965, 345/966, 345/349, 345/333, 345/334, 364/188

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected

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	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	<u>4885694</u>	December 1989	Pray et al.	N/A
<input type="checkbox"/>	<u>5214756</u>	May 1993	Franklin et al.	345/348
<input type="checkbox"/>	<u>5301301</u>	April 1994	Kodosky et al.	N/A
<input type="checkbox"/>	<u>5323452</u>	June 1994	Dickman et al.	N/A
<input type="checkbox"/>	<u>5455854</u>	October 1995	Dilts et al.	379/201
<input type="checkbox"/>	<u>5455903</u>	October 1995	Jolissaint et al.	N/A
<input type="checkbox"/>	<u>5533110</u>	July 1996	Pinard et al.	379/201
<input type="checkbox"/>	<u>5576946</u>	November 1996	Bender et al.	N/A
<input type="checkbox"/>	<u>5623541</u>	April 1997	Boyle et al.	379/136
<input type="checkbox"/>	<u>5649131</u>	July 1997	Ackerman et al.	345/335
<input type="checkbox"/>	<u>5664129</u>	September 1997	Futatsugi et al.	345/339
<input type="checkbox"/>	<u>5734837</u>	March 1998	Flores et al.	705/7
<input type="checkbox"/>	<u>5742814</u>	April 1998	Balasa et al.	N/A
<input type="checkbox"/>	<u>5754636</u>	May 1998	Bayless et al.	379/142
<input type="checkbox"/>	<u>5799297</u>	August 1998	Goodridge et al.	707/1
<input type="checkbox"/>	<u>5831611</u>	November 1998	Kennedy et al.	345/335
<input type="checkbox"/>	<u>5848393</u>	December 1998	Goodridge et al.	705/8
<input type="checkbox"/>	<u>5905493</u>	May 1999	Belzer et al.	345/334
<input type="checkbox"/>	<u>5918226</u>	June 1999	Tarumi et al.	707/10

ART-UNIT: 213

PRIMARY-EXAMINER: Bayerl; Raymond J.

ASSISTANT-EXAMINER: Thai; Cuong T.

ATTY-AGENT-FIRM: Blakely, Sokoloff Taylor & Zafman

ABSTRACT:

A system, method, and article of manufacture for editing visual primitives of a transaction flow used by a transaction processing system. A visual representation of a transaction flow containing visual primitives is accessed from a storage device by a digital computer. The visual primitives are then displayed on the visual display. The system then edits the visual primitives in a manner that provides for unrestricted placement of the visual primitives. A visual indicator is displayed if the transaction flow is incomplete. Alphanumeric text can be added to a visual primitive or placed elsewhere within the transaction flow. A connection is automatically established between a pair of visual primitives if the visual primitives overlap one another. Transaction flow templates can be selected and modified by the visual editing system.

30 Claims, 20 Drawing figures

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USPT,PGPB,JPAB,EPAB,DWPI,TDBD	l3 and undo	3	L4
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	l2 and state with history	13	L3
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	l1 and application with state	369	L2
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	global with operations	3935	L1

WEST**Generate Collection****Search Results - Record(s) 1 through 1 of 1 returned.**☐ 1. Document ID: US 5701480 A

L5: Entry 1 of 1

File: USPT

Dec 23, 1997

US-PAT-NO: 5701480

DOCUMENT-IDENTIFIER: US 5701480 A

TITLE: Distributed multi-version commitment ordering protocols for guaranteeing serializability during transaction processing

DATE-ISSUED: December 23, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Raz; Yoav	Newton	MA	N/A	N/A

US-CL-CURRENT: 709/101; 714/19

Full	Title	CIT.1	REV.1	CLS.1	REF.1	DRAW.1

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